



US007591113B2

(12) **United States Patent**  
**Mourier**

(10) **Patent No.:** **US 7,591,113 B2**  
(45) **Date of Patent:** **Sep. 22, 2009**

(54) **PLASTERBOARD**

(75) Inventor: **Alexandre Mourier**, Villeparisis (FR)

(73) Assignee: **Placoplatre**, Suressnes (FR)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 721 days.

4,579,610 A 4/1986 Kole et al.  
4,657,594 A 4/1987 Struss  
4,686,253 A 8/1987 Struss et al.  
4,824,879 A 4/1989 Montgomery et al.  
4,845,152 A 7/1989 Palmer

(Continued)

**FOREIGN PATENT DOCUMENTS**

(21) Appl. No.: **10/499,835**

AU 199660136 B2 2/1997

(22) PCT Filed: **Dec. 20, 2002**

(Continued)

(86) PCT No.: **PCT/EP02/14907**

**OTHER PUBLICATIONS**

§ 371 (c)(1),  
(2), (4) Date: **Nov. 29, 2004**

Method for Determination of Water Absorptiveness of Paper and Board (Cobb method), BSI British Standards; BS 2644:1991, ISO 535:1991 (Equivalent to French Standard NF-Q-03-014) 1991.

(87) PCT Pub. No.: **WO03/054320**

(Continued)

PCT Pub. Date: **Jul. 3, 2003**

*Primary Examiner*—Brian E Glessner  
*Assistant Examiner*—Adriana Figueroa  
(74) *Attorney, Agent, or Firm*—Cook Alex Ltd.

(65) **Prior Publication Data**

US 2005/0076610 A1 Apr. 14, 2005

(57) **ABSTRACT**

(30) **Foreign Application Priority Data**

Dec. 21, 2001 (GB) ..... 0130697.6

(51) **Int. Cl.**  
**E04B 2/00** (2006.01)

(52) **U.S. Cl.** ..... 52/417; 52/742.13

(58) **Field of Classification Search** ..... 52/742.1,  
52/742.13, 745.09, 417

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

3,507,684 A 4/1970 Wallen  
3,694,298 A 9/1972 Veschuroff et al.  
3,984,596 A 10/1976 Failmezger  
4,205,041 A 5/1980 Hymes  
4,267,092 A 5/1981 Glaser et al.

Plasterboard is surfaced with a lining paper which is printed over the whole of one face of the board using an ink containing binder and particulate solid material, applied with a density of print such that under optically examination at least 80% of the surface of the lining paper is covered by the applied print. The particulate material has a d50 denotes a number length mean particle size such that 50% of particles have volume smaller than a sphere of diameter d50. The colour of the printed lining paper can be matched to the colour of a jointing compound used as a filler between the edges of adjacent boards. The material of d50 mean particle size in the range from 1 to 10 micrometers gives the lining paper a surface texture resembling that of jointing compounds and so reduces or removes contrasts, notably in absorbency, reflectance and gloss, between the surface of the boards and the surface of the jointing compound between boards.

**13 Claims, 1 Drawing Sheet**

